

CLAIMS

1. A two-dimensional image display device comprising:
 - a red light source for emitting red light;
 - a green light source for emitting green light;
 - a blue light source for emitting blue light; and
 - a means for forming a two-dimensional image by using the lights emitted from the respective light sources of the three colors;

wherein the center wavelength of said blue light source is not less than 420nm and not larger than 455nm.
2. A two-dimensional image display device as defined in Claim 1 wherein
 - the center wavelength of said red light source is not less than 635nm and not larger than 655nm, and
 - the center wavelength of said green light source is not less than 505nm and not larger than 550nm.
3. A two-dimensional image display device as defined in Claim 1 wherein
 - the ratio of light output from the blue light source to light output from the green light source during white display is not less than 0.5:1 and not larger than 4:1, and
 - the ratio of light output from the red light source to light

output from the green light source during white display is not less than 0.4:1 and not larger than 1.3:1.

4. A two-dimensional image display device as defined in Claim 1 wherein the center wavelength of said red light source is not less than 635nm and not larger than 655nm.

5. A two-dimensional image display device as defined in Claim 1 wherein the center wavelength of said green light source is not less than 505nm and not larger than 550nm.

6. A two-dimensional image display device as defined in Claim 1 wherein the center wavelength of said blue light source is not less than 440nm and not larger than 455nm.

7. A two-dimensional image display device as defined in Claim 1 wherein the center wavelength of said blue light source is not larger than 440nm.

8. A two-dimensional image display device as defined in Claim 1 wherein said blue light source is a semiconductor laser based on gallium nitride.

9. A two-dimensional image display device as defined in Claim 1 wherein said red light source is a semiconductor laser based on

AlGaInP.

10. A two-dimensional image display device as defined in Claim 1 wherein light emitted from each light source has a spectrum width equal to or smaller than that of a semiconductor laser source.